

US EPA ARCHIVE DOCUMENT



## UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

WASHINGTON, D.C. 20460

006403

OFFICE OF  
PESTICIDES AND TOXIC SUBSTANCESMEMORANDUM

SEP 29 1987

SUBJECT: EPA File Symbol 707-EUP-RRG  
Rally 60 DF Fungicide

FROM: Deloris F. Graham *AFH 10/5/87*  
Technical Support Section  
Fungicide-Herbicide Branch  
Registration Division (TS-767C)

TO: Lois A. Rossi, PM 21  
Fungicide-Herbicide Branch  
Registration Division (TS-767C)

*E 10/5/87*

APPLICANT: Rohm and Haas Company  
Independence Mall West  
Philadelphia, PA 19105

## ACTIVE INGREDIENT:

$\alpha$ -butyl- $\alpha$ -(4-chlorophenyl)-1H-1,2,4-triazole-1-propanenitrile . . . . . 40%

INERT INGREDIENTS: . . . . . 60%

BACKGROUND:

According to a letter from the company dated September 15, 1987, they are submitting a Rabbit Skin Irritation Study and a Dermal Sensitization Study as requested by the Agency based on a Toxicology Branch review dated January 13, 1987. Studies conducted by Rohm and Haas Company and Hazleton Laboratories America, Inc. Data under EPA MRID Nos. 403432-01 and -02. Method of support not indicated.

RECOMMENDATION:

1. FHB/TSS finds these two studies acceptable to support conditional registration of this product.
2. The product is not considered a skin sensitizer.

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3. The appropriate toxicity category for the Skin Irritation Study is IV - CAUTION.

LABEL:

No precautionary labeling required in regard to hazard via primary skin irritation or dermal sensitization.

REVIEW:

- (1) Skin Irritation Study: Rohm and Haas Company; Report No. 87R-083; August 28, 1987; EPA MRID No. 403432-01.

PROCEDURE:

Six rabbits with intact skin sites each received 0.5 g of the test material mixed with 0.5 ml of 0.85% saline to form a paste. Treated sites placed under occlusive wrap for 4 hour exposure period. Observations were made for 7 days posttreatment.

RESULTS:

No irritation reported during 7 day observation period.

STUDY CLASSIFICATION: Core Guideline Data

TOXICITY CATEGORY: IV - CAUTION

- (2) Dermal Sensitization Study: Hazleton Laboratories; Project ID. HLA-417-424; August 26, 1987; EPA MRID No. 403432-02.

PROCEDURE:

Three groups consisting of an equal number of male and female guinea pigs were treated with one of the following substances: test material (20M + 20F); 1-chloro-2,4-dinitrobenzene (DNCB) at a 0.1% w/v concentration in 80% v/v aqueous ethanol (10M + 10F); sham control (10M + 10F). Each group received 3, 0.4 ml doses a week for 3.5 weeks of the appropriate material using the patch method. Twelve days following the last induction phase application a challenge dose of 0.4 ml of a 50% test material in distilled water was applied in the test group and 0.1% DNCB in acetone applied to

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positive control group. Sham control group was treated at challenge with test material and DNCB. Observations made for 24 and 48 hours after each application.

RESULTS:

No irritation reported in test group animals during induction phase. Only + irritation at challenge in test group and sham control group.

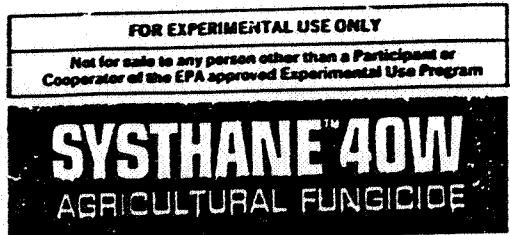
Slight irritation reported in DNCB (positive control) group during induction phase. Slight to well defined irritation reported at challenge in treated group and + irritation in sham control.

It is concluded that no sensitization reaction was produced by test material. DNCB did produce a sensitization response.

STUDY CLASSIFICATION: Core Guideline Data

TOXICITY CATEGORY: Non-sensitizing

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For use only at an application site of a cooperater and in accordance with the terms and conditions of the Experimental Use Permit. This labeling must be in the possession of the user at the time of the pesticide application.

NOTICE: Before using this product read the entire Precautionary Statements, Notes of Warning, Directions for Use, Use Instructions, and Storage and Disposal Instructions.

**KEEP OUT OF REACH OF CHILDREN**

## CAUTION

### PRECAUTIONARY STATEMENTS

#### HAZARDS TO HUMANS AND DOMESTIC ANIMALS -

The chemical, physical and toxicological properties of Systhane have not been fully investigated and its handling, storage and use may be hazardous.

Harmful if swallowed, inhaled, or absorbed through the skin. Do not swallow, get in eyes, on skin or breathe spray mist. Wear goggles, mid-forearm to elbow-length chemical-resistant gloves, hat, long-sleeved shirt and long pants when mixing, loading and applying this product. Contaminated clothing must be laundered separately in hot water before using. Wash thoroughly after handling and before eating or smoking.

#### STATEMENTS OF PRACTICAL TREATMENT

**IF IN EYES:** Flush eyes with a large amount of water for at least 15 minutes. Call a physician if irritation persists.

**IF INHALED:** Move victim to fresh air.

**IF ON SKIN:** Wash affected area thoroughly with soap and water.

**IF SWALLOWED:** Dilute by giving two glasses of water to drink and call a physician. Never give anything by mouth to an unconscious person.

#### ENVIRONMENTAL HAZARDS

Do not apply directly to water or wetlands. Do not contaminate water by cleaning of equipment or disposal of wastes. Do not apply when weather conditions favor drift or runoff from areas treated.

#### DIRECTIONS FOR USE

Use of this pesticide in a manner inconsistent with the terms of the experimental use permit is a violation of Federal Law.

#### GENERAL USE INFORMATION

SYSTHANE is a systemic curative and protectant fungicide being evaluated for disease control on apples, grapes, and perennial grasses grown for seed. When treated as described under use directions, apples and grapes may be marketed only for fresh fruit. Applications to apples and grapes should be made with aerial or hydraulic spray equipment. Applications to perennial grasses grown for seed should use a minimum of 20 gallons of water per acre with ground boom sprayers and 7 to 10 gallons of water per acre for aerial application. Note specific restrictions for apples, grapes, and perennial grasses grown for seed.

**USE RATE DETERMINATION** — Carefully read, understand, and follow label use rates and restrictions.

**ACCEPTED**

SL. 301-222  
for shipment and use of product  
for experimental purposes under  
the Pesticide Act, the F. D. R.  
Insecticide, Fungicide, and  
Rodenticide Act.

Permit No. 707-EUP-105  
Issued on 2/28/86

**ACTIVE INGREDIENTS**  
• Benzyl + M-cresophenyl IM 1, 2, 4 isobutyl I  
preservative

**INERT INGREDIENTS**

45%  
55%  
Total 100%

EPA Experimental Use Permit No. 707-EUP-105  
U.S. Patent No. 4,566,165

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**RE-ENTRY AND WORKER PROTECTION STATEMENTS**  
Do not enter treated areas without protective clothing until sprays have dried. Because certain states may require more restrictive re-entry intervals for various crops treated with this product, consult your State Department of Agriculture for further information. Do not apply this product in such a manner as to directly or through drift expose workers or other persons. The area being treated must be vacated by unprotected persons. (See Use Directions for additional re-entry statements.)

#### STORAGE AND DISPOSAL

**STORAGE:** Keep away from fire and sparks. Store in a cool, dry, well-ventilated area. Do not allow to become wet or overheated in storage. Keep container closed when not in use.

**PESTICIDE DISPOSAL:** Do not contaminate water, food or feed by storage or disposal. Pesticide wastes are toxic. Improper disposal of excess pesticide, spray mixture, or rinsates is a violation of Federal law. If these wastes cannot be disposed of by use according to label instructions, contact your State Pesticide or Environmental Control Agency, or the Hazardous Waste representative at the nearest EPA regional office for guidance.

**CONTAINER DISPOSAL:** Triple rinse (or equivalent) then offer for recycling or reconditioning or puncture and dispose of in a sanitary landfill or by incineration or, if allowed by state and local authorities, by burning. If burned, stay out of smoke.

**STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED:** Wear eye protection. Wear protective clothing. Spray water on powder or dust. Scoop or shovel solid material into a suitable container for recovery or disposal. Keep dust to a minimum. Flush contaminated area with a large amount of water to a chemical or sanitary sewer containing a settling pit. Remove contaminated clothing promptly and wash affected skin areas with soap and water. Thoroughly launder clothing before re-use.

#### NOTICE OF WARRANTY

The product is for experimental use only. Rohm and Haas makes no warranties of merchantability or fitness for a particular purpose nor any other express or implied warranty except as stated herein.

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**GENERAL USE INFORMATION**

SYSTHANE is a systemic curative and protectant fungicide being evaluated for disease control on apples, grapes, and perennial grasses grown for seed. When treated as described under use directions, apples and grapes may be marketed only for fresh fruit. Applications to apples and grapes should be made with airblast or hydraulic spray equipment. Applications to perennial grasses grown for seed should use a minimum of 20 gallons of water per acre with ground boom sprayers and 70 to 10 gallons of water per acre for aerial application. Note specific restrictions for apples, grapes, and perennial grasses grown for seed.

**USE RATE DETERMINATION — Carefully read, understand, and follow label use rates and restrictions.**

Crop	Diseases	Rate of SYSTHANE Fungicide Per Application 07./100 Gals.	(Also Refer To Directions For Use)	Remarks Restrictions
Apples	Powdery mildew Scab Cedar-Apple Rust	2 to 2.5	7 to 10 Begin applications at green tip and repeat at 7 to 10 day intervals until danger of infection is past.	Do not apply within 14 days of harvest.  Do not apply more than 5 pounds per acre per crop season.  For use on fresh market apples only.  Do not graze livestock in treated areas or feed cover crops grown in treated areas to livestock.
Grapes	Powdery mildew Black rot	—	2 to 5 Begin applications at prebloom and continue applications at 14 to 21 day intervals or as needed.	Do not apply within 14 days of harvest.  Do not apply more than 1.5 pounds per acre per crop season.  For use on fresh market grapes only.  Do not apply within 21 days of harvest.  Do not apply more than 2.0 pounds per acre per crop season.  Do not graze livestock in treated areas or use any part of crop residues for feed or bedding purposes.
	Perennial Grasses Grown For Seed (Perennial Ryegrass, Kentucky Bluegrass)	—	4 to 8 Begin applications early spring or at first sign of rust infection and continue on a 14 to 21 day application schedule.	

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